(19) World Intellectual Property Organization International Bureau

ganization ational Bureau



(43) International Publication Date 15 January 2004 (15.01.2004)

PCT

(10) International Publication Number WO 2004/005234 A2

(51) International Patent Classification7:

C07C 51/00

(21) International Application Number:

PCT/GB2003/002843

(22) International Filing Date:

2 July 2003 (02.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0215384.9

4 July 2002 (04.07.2002) GB

(71) Applicants (for all designated States except US): JOHN-SON MATTHEY PUBLIC LIMITED COMPANY [GB/GB]; 2-4 Cockspur Street, Trafalgar Square, London SW1 5BQ (GB). AUBIN LIMITED [GB/GB]; Unit 1, Castle Street, Castlepark Industrial Estate, Ellon AB41 9RF (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MURRAY, James [GB/GB]; 53 Anderson Drive, Aberdeen AB15 4UA (GB). TOBIN, Edmund, Austin [IE/GB]; Burnshangie House, Strichen, Aberdeenshire AB43 4XY (GB). WARREN, Stephen, Geoffrey [GB/GB]; 5 Ermine Close, Royston, Herts SG8 5EE (GB).

(74) Agent: WISHART, Ian, Carmichael; Johnson Matthey Technology Centre, Blounts Court, Sonning Common, Reading RG4 9NH (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVEMENTS IN METAL SALTS

(57) Abstract: Alkali metal carboxylate salt brines, such as cesium formate brine, are used in oil and gas drilling procedures. Contamination with chloride ions can be controlled by treatment with a silver salt solution, and removing silver chloride formed. High density brines can be obtained, suitable for re-use.